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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-03-06** **Date: 06-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Repairs of existing crematorium Building at Hebbal in Yelahanka Zone.
Agency	:	Sri. Madhusudhan.R, Contractor, #830, 5th Block, BEL Layout, Vidyranyapura Bangalore-97
Customer Reference	:	EE(Project)YnkZone/WO/60/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2018-04-03-06 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-04-18

Sample received in a/a condition

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	189	189	3.8	96.2	90-100
3	10 mm	3015	3204	64.1	35.9	25-55
4	4.75 mm	1563	4767	95.3	4.7	0-10
5	Pan	233	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-03-06** **Date: 06-04-18**

Sample ID No : 2018-04-03-06 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.5**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.7**	
3	Specific Gravity	**2.63**	–
4	Bulk Density(Loose) (Kg/l)	**1.48**	–
5	Bulk Density(Compacted) (Kg/l)	**1.53**	–
6	Water Absorption(%)	**0.28**	–
7	Aggregate crushing Value(%)	**24.5**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.8**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-04-03-06** **Date: 06-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Repairs of existing crematorium Building at Hebbal in Yelahanka Zone.
Agency	:	Sri. Madhusudhan.R, Contractor, #830, 5th Block, BEL Layout, Vidyranyapura Bangalore-97
Customer's Reference	:	EE(Project)YnkZone/WO/60/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2018-04-03-06 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-04-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	46	46	4.6	95.4	90-100	90-100	90-100	95-100
3	2.36 mm	138	184	18.4	81.6	60-95	75-100	85-100	95-100
4	1.18 mm	201	385	38.5	61.5	30-70	55-90	75-100	90-100
5	600 micron	197	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	180	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	168	930	93.0	7.0	0-10	0-10	0-10	0-15
8	Pan	70	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE received

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-04-03-06**

Date: 06-04-18

Sample ID No : 2018-04-03-06 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.46	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	6.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-04-03-06** **Date: 06-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Repairs of existing crematorium Building at Hebbal in Yelahanka Zone.
Agency	:	Sri. Madhusudhan.R, Contractor, #830, 5th Block, BEL Layout, Vidyranyapura Bangalore-97
Customer's Reference	:	EE(Project)YnkZone/WO/60/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2018-04-03-06 /01
Sample Type	:	Dalmia 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-04-03-06 **Date: 02-05-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Repairs of existing crematorium Building at Hebbal in Yelahanka Zone.
Agency	:	Sri. Madhusudhan.R, Contractor, #830, 5th Block, BEL Layout, Vidyranyapura Bangalore-97
Customer's Reference	:	EE(Project)YnkZone/WO/60/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2018-04-03-06 /01
Sample Type	:	Dalmia 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-04-03-06** **Date: 06-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Repairs of existing crematorium Building at Hebbal in Yelahanka Zone.
Agency	:	Sri. Madhusudhan.R, Contractor, #830, 5th Block, BEL Layout, Vidyranyapura Bangalore-97
Customer's Reference	:	EE(Project)YnkZone/WO/60/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2018-04-03-06 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	168	168	1.1	98.9	90-100
3	20 mm	7122	7290	48.6	51.4	30-70
4	10 mm	4896	12186	81.2	18.8	10-35
5	4.75 mm	2259	14445	96.3	3.7	0-5
6	Pan	555	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-04-03-06** **Date: 06-04-18**

Sample ID No : 2018-04-03-06 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.1**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.5**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.42**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.24**	_

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-04-03-06** **Date: 07-04-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Repairs of existing crematorium Building at Hebbal in Yelahanka Zone.
Agency	:	Sri. Madhusudhan.R, Contractor, #830, 5th Block, BEL Layout, Vidyranyapura Bangalore-97
Customer's Reference	:	EE(Project)YnkZone/WO/60/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-18
Sample ID No	:	2018-04-03-06 /07
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	04-04-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	152	202	12374	24.150	1951.7	1984.8	Not less than 1800Kg/m^3
2	401	150	201	12090	24.210	2002.5		
3	402	149	203	12159	24.320	2000.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.640	24.350	5.30	4.99	Shall not be more than 10% by mass
2	25.730	24.450	5.24		
3	25.490	24.410	4.42		

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Lab ID : **CP-2018-04-03-06** **Date: 07-04-18**

Sample ID No : **2018-04-03-06 /07**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	152	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	150	203	
3	402	153	201	
4	401	150	203	
5	402	151	201	
6	403	152	201	
7	401	150	203	
8	402	149	200	
9	403	150	201	
10	401	149	203	
11	402	151	202	
12	403	153	201	
13	402	150	203	
14	402	152	201	
15	403	150	203	
16	401	151	201	
17	402	152	203	
18	403	150	201	
19	402	153	203	
20	401	150	201	
Average of 20	**402**	**151**	**202**	

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Lab ID : **CP-2018-04-03-06** **Date: 07-04-18**

Sample ID No : 2018-04-03-06 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	403	152	61256	296.7	4.8	4.6
2	401	150	60150	275.6	4.6	
3	402	153	61506	280.4	4.6	
4	401	150	60150	277.6	4.6	
5	402	151	60702	263.4	4.3	
6	403	152	61256	280.3	4.6	
7	401	150	60150	286.4	4.8	
8	402	149	59898	267.1	4.5	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

AE accepted

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-19-03** **Date: 23/04/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements and Repairs of existing crematorium Building at Hebbal in Yelahanka Zone.

Agency : Sri. Madhusudhan.R, Contractor, #830, 5th Block, BEL Layout, Vidyranyapura Bangalore-97

Customer's Reference : EE(Project)YnkZone/WO/60/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-04-18

Sample ID No : 2018-04-19-03 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/04/2018	23/04/2018	150.47 X 150.66 X 150.47	22670	8.154	281.1	12.4	12.7
2	PCC	M15	16/04/2018	23/04/2018	150.98 X 150.22 X 150.46	22680	8.163	297.1	13.1	
3	PCC	M15	16/04/2018	23/04/2018	150.74 X 150.66 X 149.63	22710	8.196	288.4	12.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/05/2018

Lab ID	:	**CP-2018-04-19-03**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Repairs of existing crematorium Building at Hebbal in Yelahanka Zone.
Agency	:	Sri. Madhusudhan.R, Contractor, #830, 5th Block, BEL Layout, Vidyranyapura Bangalore-97
Customer's Reference	:	EE(Project)YnkZone/WO/60/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-18
Sample ID No	:	2018-04-19-03 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	16/04/2018	14/05/2018	149.63 X 150.44 X 150.22	22510	8.157	411.9	18.3	18.2
2	PCC	M15	16/04/2018	14/05/2018	150.63 X 151.47 X 150.76	22816	8.201	408.4	17.9	
3	PCC	M15	16/04/2018	14/05/2018	150.43 X 150.49 X 150.44	22638	8.163	416.5	18.4	

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